

We claim:

1. A covered optical fiber comprising:
at least on optical fiber; and
5 a buffer tube covering surrounding the optical fiber, said covering being comprised of a blend of at least 40% by weight of a copolyether ester elastomer, at least 10% by weight of a rubbery modifier, and at least 10% by weight of an amorphous thermoplastic polymer, said blend having a melting point of at least 165° C and a Trouser Tear Strength of less than
10 65 N/mm.
2. The covered optical fiber of claim 1 wherein the thermoplastic blend of said thermoplastic covering is comprised of blend of 40% to 80% by weight of a copolyether ester elastomer, 10% to 40% by weight of a rubbery modifier, and
15 10% to 40% by weight of an amorphous polymer.
3. The covered optical fiber of claim 1 wherein the blend comprising the buffer tube covering has a Shore D hardness of at least 55 and an E Modulus of at least 200 MPa.
20
4. The covered optical fiber of claim 2 wherein the amorphous thermoplastic polymer is a thermoplastic polymer selected from the group of polycarbonates, amorphous PET, amorphous PBT, PMMA, SAN, ABS, and blends thereof.
- 25 5. The covered optical fiber of claim 4 wherein the amorphous thermoplastic polymer is a polycarbonate.
6. The covered optical fiber of claim 5 wherein the blend comprising the buffer tube covering has a shrinkage of less than 1 percent.
30
7. The covered optical fiber of claim 2 wherein the rubbery modifier is a polymer selected from the group core-shell impact modifier or a rubber.
8. The covered optical fiber of claim 6 wherein the rubbery modifier is a core-shell impact modifier having a rubbery butyl-acrylate core onto which a glassy thermoplastic methyl methacrylate shell is grafted wherein the core makes up
35 70 to 90 percent by weight of the modifier.

9. The covered optical fiber of claim 6 wherein the rubbery modifier is a vulcanized acrylate terpolymer.

10. A covered optical fiber comprising:

5 at least on optical fiber; and
 a buffer tube covering surrounding the optical fiber, said covering
 being comprised of a blend of 40% to 80% by weight of a copolyether
 ester elastomer, 10% to 40% by weight of a core-shell impact modifier,
 10% to 40% by weight of a polycarbonate polymer, said blend having a
10 melting point of at least 165° C, a Trouser Tear Strength of less than
 65 N/mm, a Shore D hardness of at least 55 and an E Modulus of at least
 200 MPa.

11. The covered optical fiber of claim 10 wherein the blend comprising the buffer
15 tube covering has a Trouser Tear Strength of less than 55 N/mm, a Shore D
 hardness of at least 60, an E Modulus of at least 300 MPa, and a shrinkage of
 less than 1%.

20